

FILED 06502360

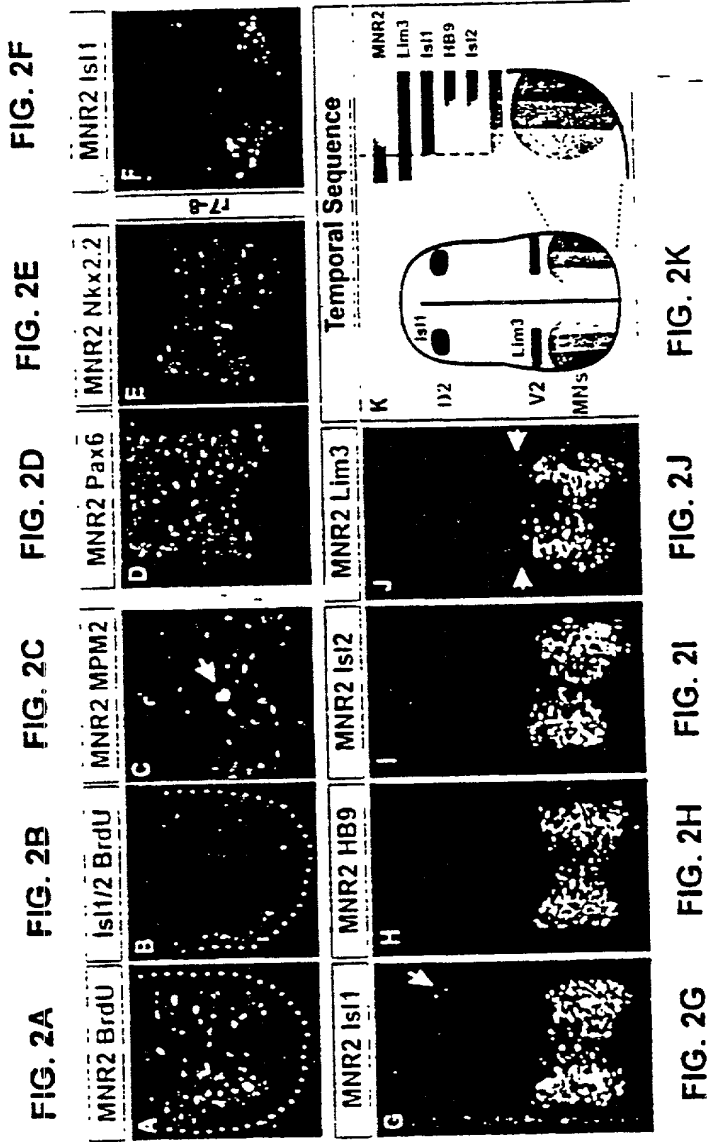


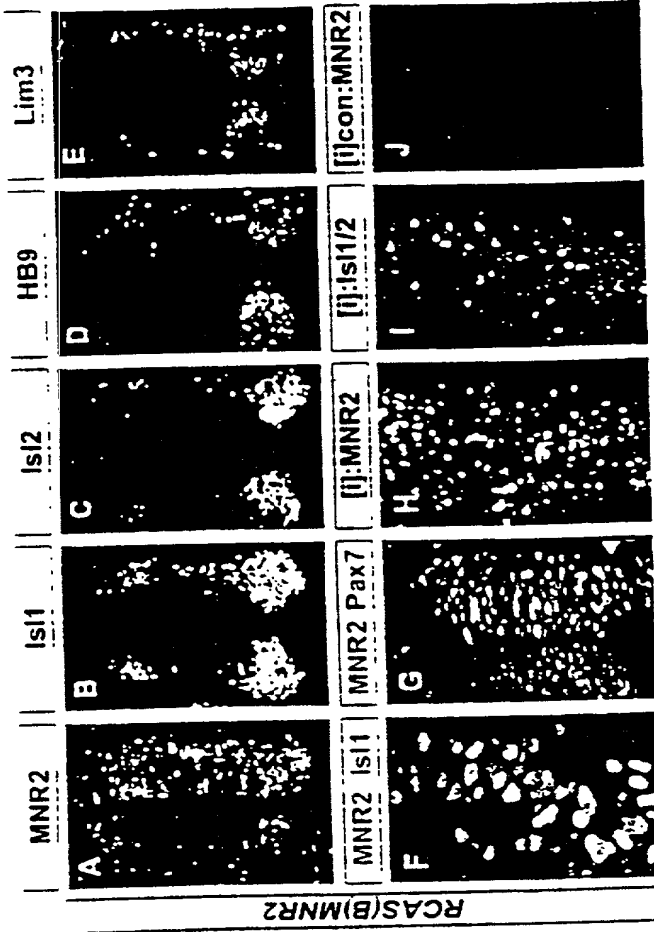
FIG. 3A

FIG. 3B

FIG. 3C

FIG. 3D

FIG. 3E



RCA5(B)MNR2

FIG. 3J

FIG. 3I

FIG. 3H

FIG. 3G

FIG. 3F

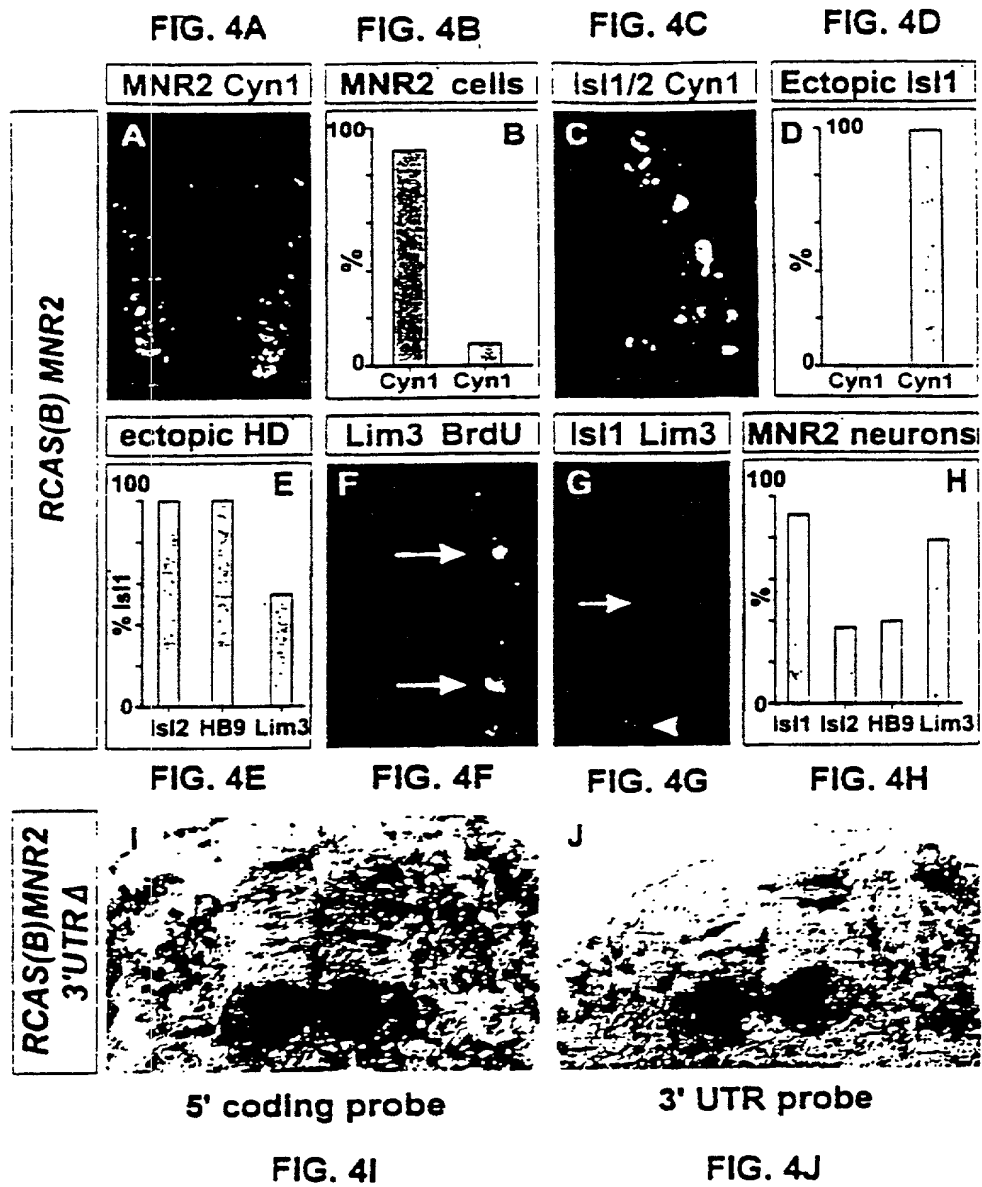


FIG. 5A FIG. 5B FIG. 5C FIG. 5D FIG. 5E

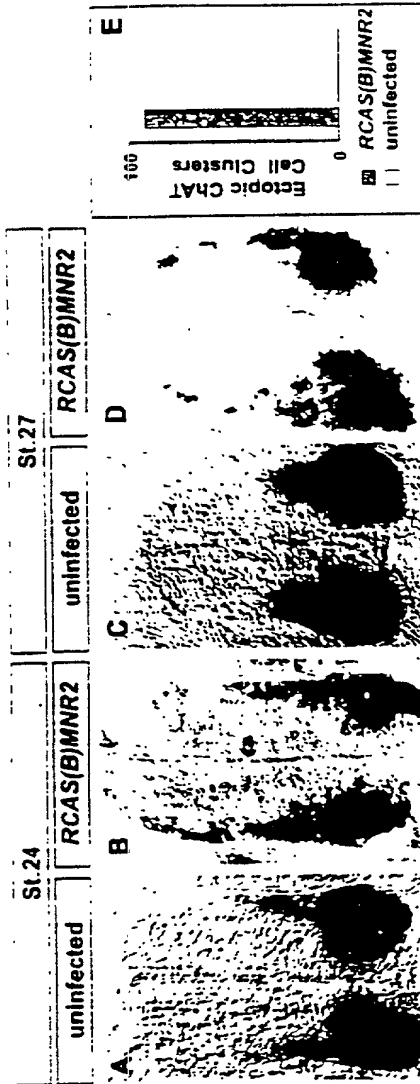


FIG. 5F FIG. 5G FIG. 5H FIG. 5I FIG. 5J



FIG. 6A FIG. 6B FIG. 6C FIG. 6D FIG. 6E

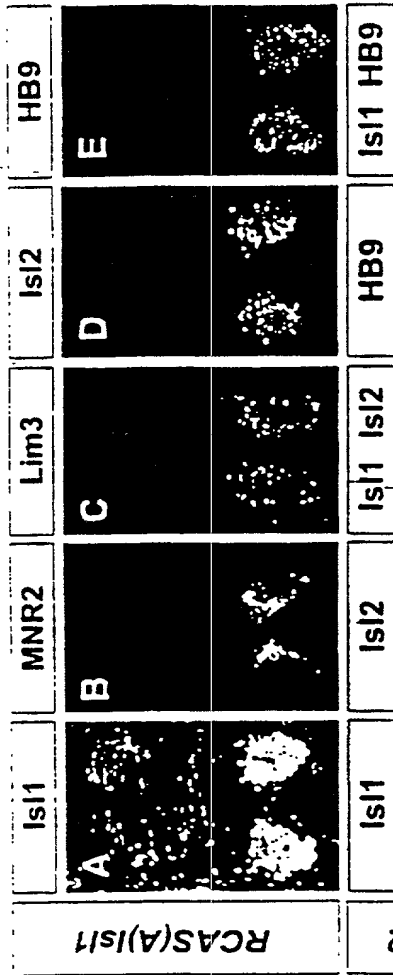


FIG. 6F FIG. 6G FIG. 6H FIG. 6I FIG. 6J

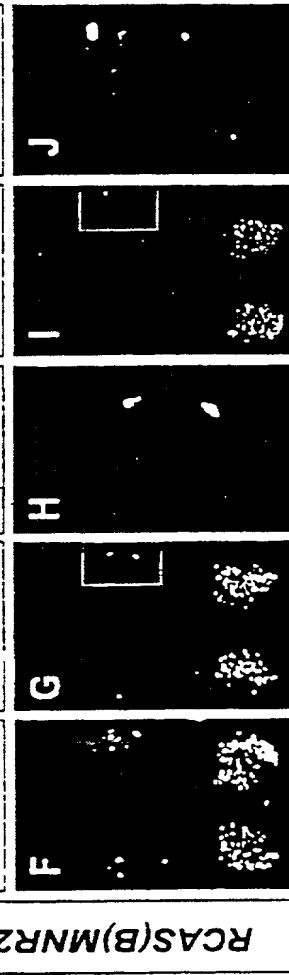


FIG. 6K FIG. 6L FIG. 6M FIG. 6N

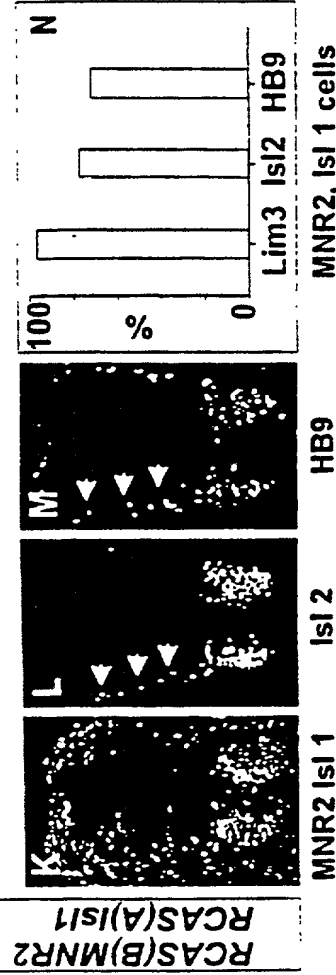
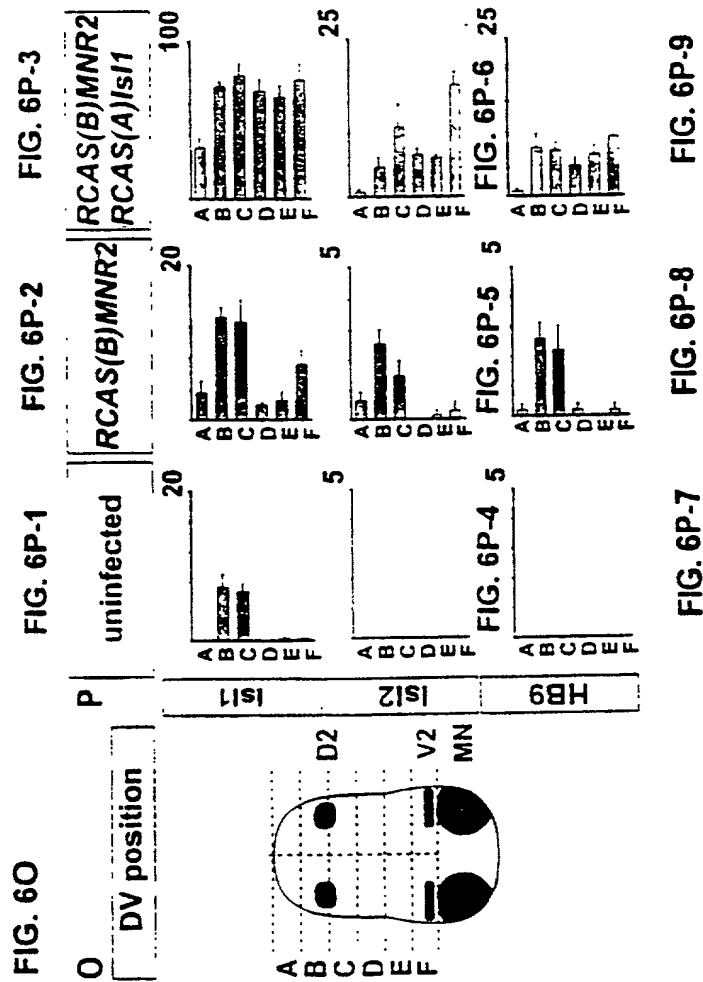
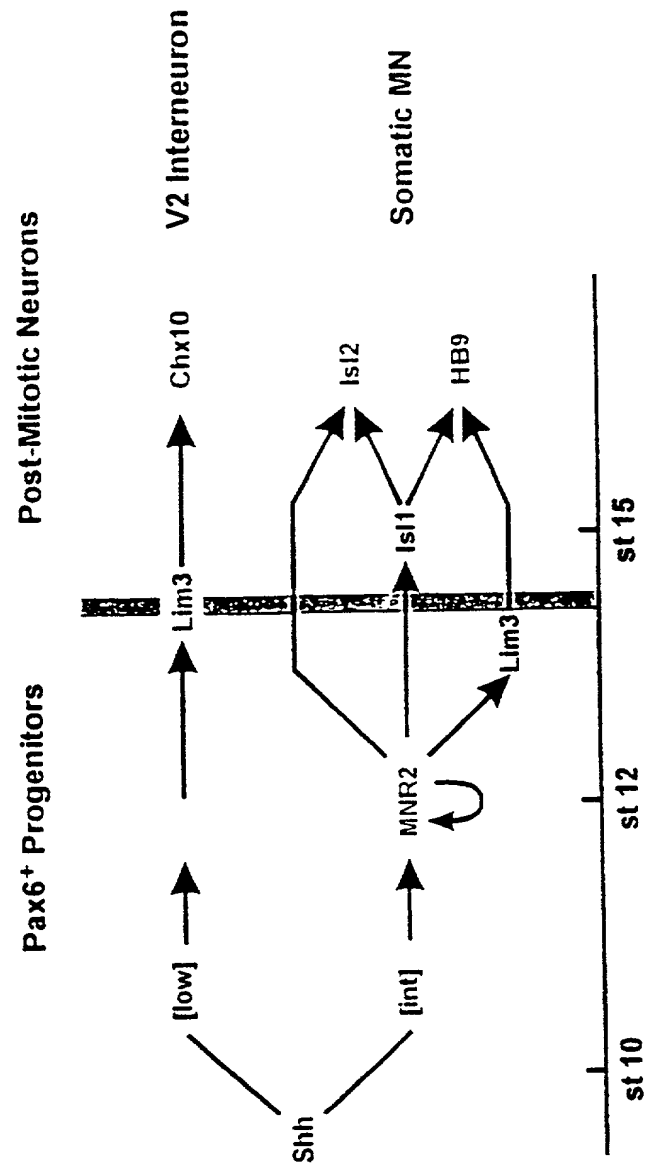


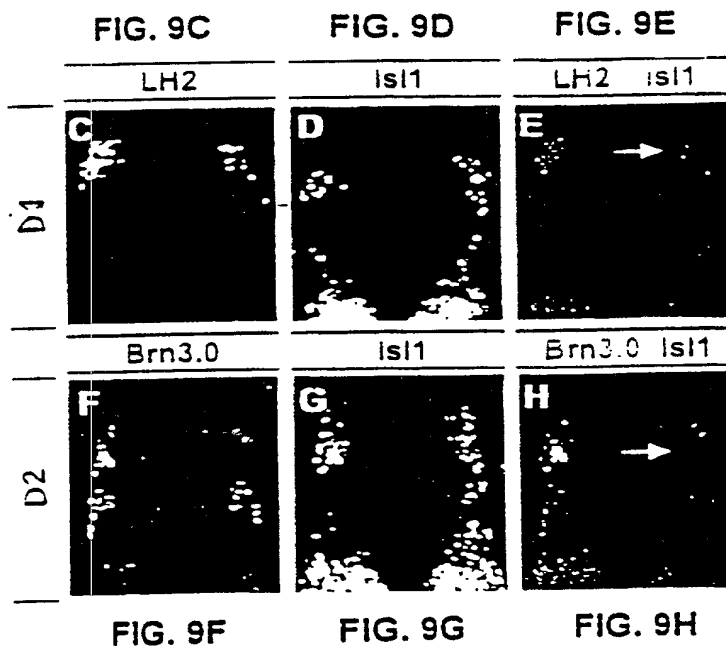
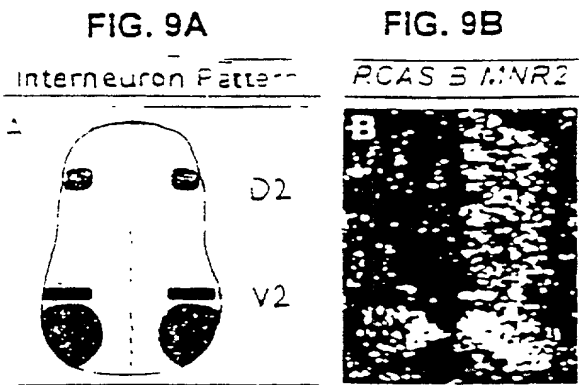
FIG. 60



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FIG. 8





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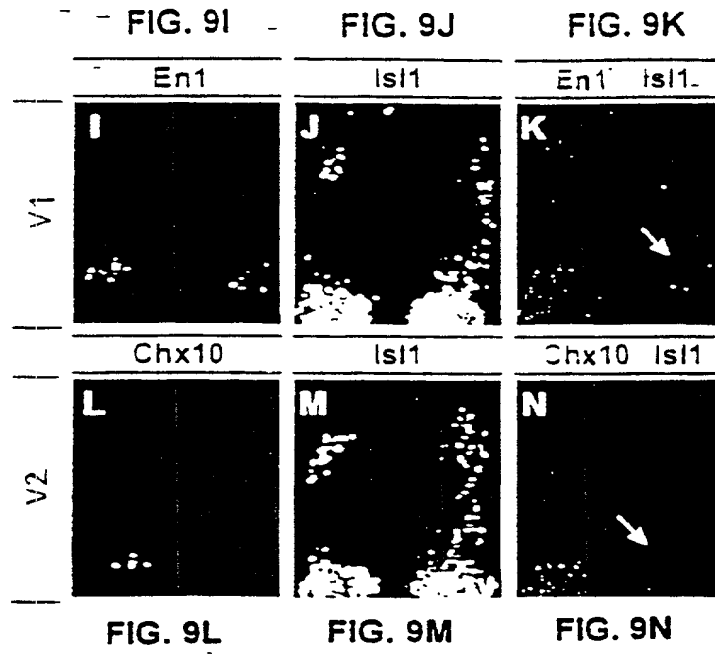


FIG. 9I

FIG. 10
SEQ. ID NO. 1

cMNR2-protein

1 MIKPMESQN FRIEALLAEK PPRSASPPGL SPAGSPGPAG RTDTPSPRAP QAATPIGPAG
61 FVPKPGLLHL PGPGLGTI.PA LYPPAVYPLP ALGGQHAFA YTAFPQLPPP GAETH.KAAVA
121 GSFPIEQWIR AGMI.VPRI.SD FHATPQSALM GKSRRPRTAF TSQQLLELEN QFKLNKYI.SR
181 PKRFEVATSL MITETQVKIW FQNRRMKWKR SRKAKEQGMA VEPEKPRGLG KADESL.PSQ
241 PQQAGDSPE FVGCSPGTGF LCRSAELGYD PDSSCSGGEE DEEEEDDGMD TAERKMGSVI.

FIG. 11 cMNR2-dna

SEQ. ID NO. 2

1 CAGATCTGCT CCCAGATGCT CTGCCTCTCC TCGAAGGCCA GAGTCGGTGG GTCCGGGCCA
61 GCTCTGCTCC TGC TCACCCG CCTGTCCAG AGCAGCCAAG GCTTTCATCT CCACCTGTCT
121 CTGGTGCTT CACCTGGAGA AGACCAACC GAGCAATAA ATAACAATCT GCCCGTATGC
181 ACCTGCTCCA TGGGCTTCTT GGGCGGATAG ACGATGCAGG GTTGTGGCCC CTGCGTGCAG
241 CCAGCTCGG CCGGCTGATG TCCCGGTGCC AAAGAGGTGC AAAGAGGAAC GGCACGGGCT
301 GTGAAGAGCA GATTCGGCC CCGGGTGTG CCGAGGGCTT GCGAAGCCG GCGAGGAG
361 GCCGGGCCA CCGGGCGGG GCGCGCGGG GAGCCAATAG GGAGCTGGG CAGTGGAGG
421 GGGGGTTAA AACCCGCCG GTGGCGCGG GCAAGCGAGT GCCCGGAGG AGGAGCGGTG
481 AGGAGGCTG CCGCTGAGG CAGCGGAGG CCGCGCGGC CCGGAGTGA ATGCCCGCG
541 GTGCCGGGT GGGCTGGGC TGCCCGCGG GCGCTTGC TGGCAGCGA GCGCGGGG
601 GAGGACGCT GCGTTCGCG GGGCGCGG CCGGCCATGC ACAACCCAT GGAGAAGTCC
661 CAAACTTCC GATTCGAGC GCTCCTGGCT GAGAAAGCCG CCGGAGCGC CTCTCTTCCG
721 GGGCTCAGC CCGCGGGCAG CCGCGGCC CCGCGCCGTA CCGACACCC CTGCGCTCCG
781 GCTCCCCAG CCGCACCC CCGCGGCC CCGCGCCGTC TCCCAAAAC CGGCTTGTG
841 CACCTCCCG GCGCGGGCT GGGCACCTG CCGGCCCTCT ACCCGCTGC CGTGTACCCG
901 CTGCGGGCT TGGGGGGCA GCACGCCGT TCGCCTACA CCGCTTCC CCGCTGCCG
961 CCGCCCGCG CCGACACT CAGAGGCGG GTGGCGGT TCGACTTC ACGCCACCC ACAGTCCGC
1021 ATCCGAGCG GATGCTCGT GCGAGGCTC TCGACTTC GCGCACCC GCGTGGAGTG
1081 TTGATGGAA AGTCGCGCG CCGCGCAC CCGCTTACCA GCGCTTCCA GTGGCCACG
1141 GAGAACAGT TCACCTGAGC GCAGGTGAAG ATCTGGTTC AGAACCGCG CATGAAGTG
1201 TCGCTGATG CCAAGCACA GAGCAGGGG ATGGCAGTGG AGCCCGAGAA GCCACGGGG
1261 AAGCGGAGC CTGATGAGAG TCTGCTGCC AGCCAGCCC AGGACAGGC TGGTGACAGC
1321 CTTGGCAAG TGGGTGAG TCGCTGCC CCGCGAACG GGTTCCTGT GCGCAGCGC CCGCTTGGC
1381 CCGGAGTTG TGGGTGAG ACTTCCTCTG TTCAGGGGA GAGGAGGAG GACGATGCG
1441 TATGACCCG CCGAGAGGA GATGGCTCT GTGTGTGAA GAGGTTCCTC GGTGAGGAGT
1501 ATGGACACTG CCGAGAGGA GATGGCTCT GTGTGTGAA GAGGTTCCTC GGTGAGGAGT
1561 TGGACCACTG TCGGCTGGCA GACACAGCT GTGCCCATGT GCAGCGTGG GGTGAGGAG
1621 AGCCTGCCCC CCGCTTCTT TAACCTATGT GTGTGTGGAG TCTATTTAAT GTGTAATTAT
1681 TCCCTGTGTG ATCTTGGGGT TTCCCCACAT CCTCCCCCTA TAAAGCTGTT ATCCCG

FIG. 12

SEQ. ID NO. 3

cHB9-protein

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1  MEKSKNFRID ALLAVDPPKA AAQAPLALV TGGSGGGSP SSSSSSSSS SSSSELPAAC
61  PRTDSPSPR LLPAHCAILL KAAFIGGGP GGHPQHIAL GLHPAGPGP GLYGHVPVGY
121 PAI/GGQHPAL SYSYSQVQGA HPAPPSADPI KLSAGTFQLD QWLRASTAGM ILPKMPDFGS
181 QAQSNILGKC RRPRTAFTSQ QLLLELHQFK LNKYLSRPKR FEVATSLMLT ETQVKIWFQN
241 RRMKWKRQKK AKEQAAQAE NEKGGGGED KSGPRELLLP GPEKGGRRRL RELPDSEPED
301 FEEEEEEFE AEAGRCPPYH SSDCSEADEE DSQSGGRPGA PPPPPAQPQ*

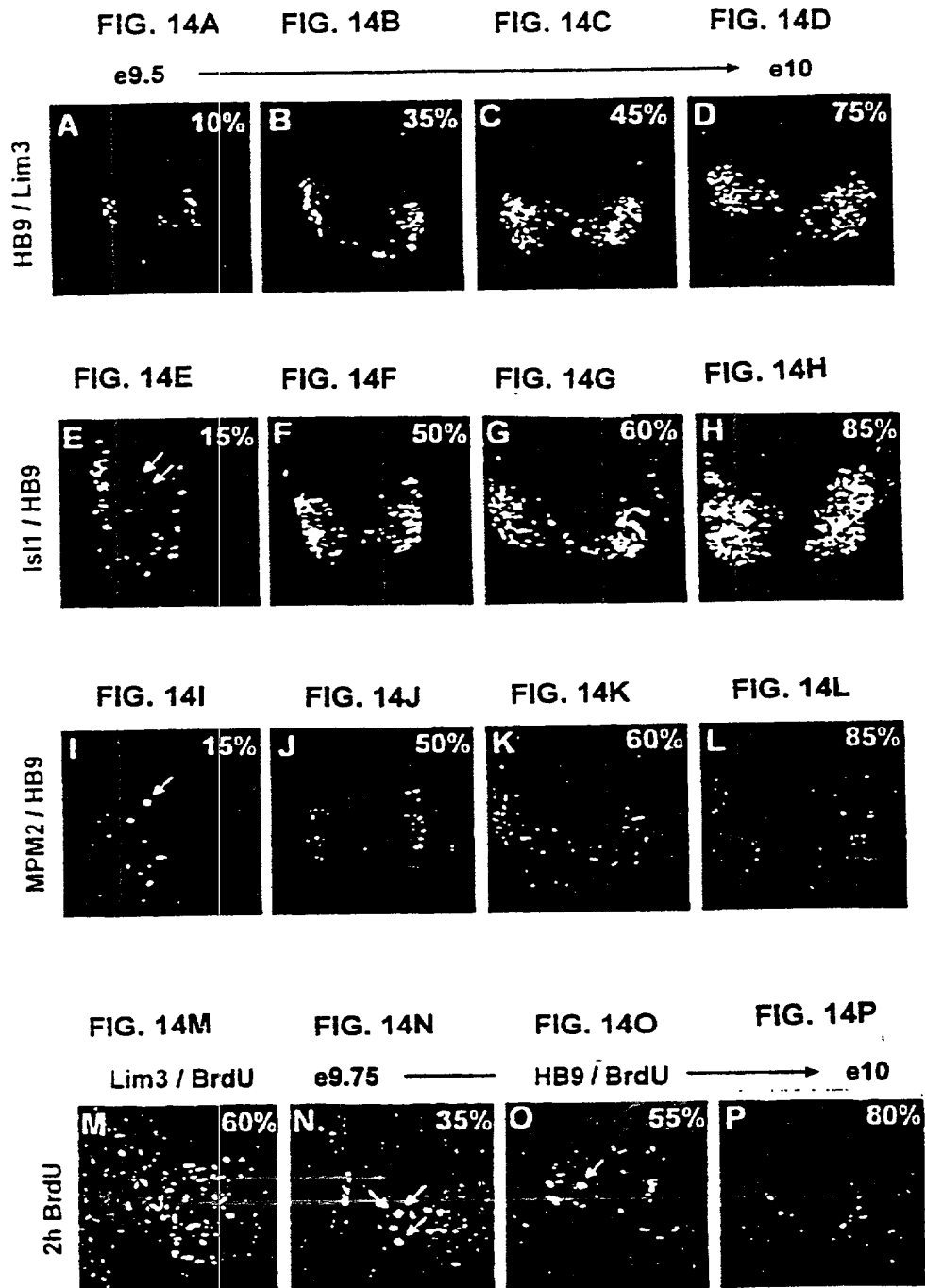
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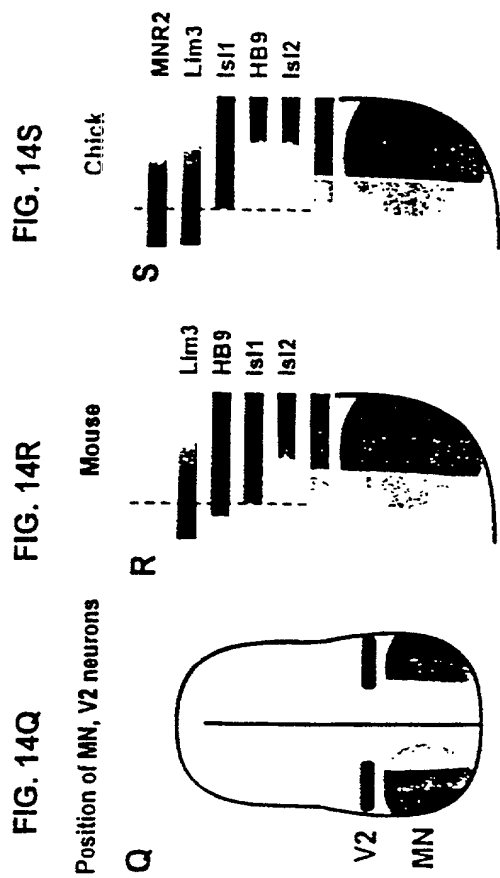
FIG. 13

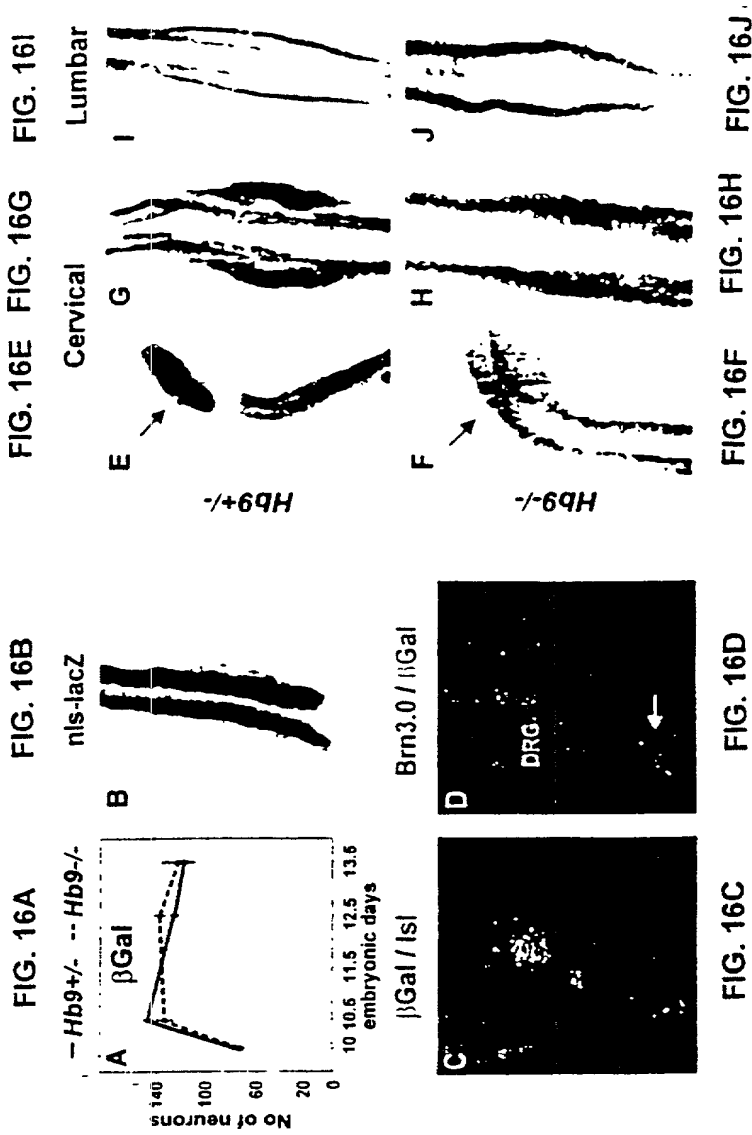
SEQ. ID NO. 4

CHB9 - DNA

1 CCGGGCTGGC CTCTCGCCGCTCCGCCGCT CCCATGAAA AATCCAAAAA TTTCCGCATC
 61 GACGCGCTGC TGGCTGTGGA TCCCCCAAG GCGGCGCGC AGAGCGCTCC GCTGGCCCTG
 121 CTCACCGCG GCTCCGCGG CCGAGCCCT CCGTCCTGCT CTTCTCTCTG GTCCTCTCTG
 181 TCCCTCTCT CTTCCGAGCT CCGCGCCGAC TGCCCGGCA CCGACAGCC CTTCTCTCTG
 241 CGCCTGCTGC CCGGCACTG CCGCTGCTG CCCAAAGCCG CTTCTCTGCG CGGGGCGGGA
 301 CCGGGGGCG GCCACCCGCA GCACACGCC CTGGGGCTGC ACCCGCGGG GCCGGCGGG
 361 CCGGGCCCTC AGGGCACCC GGTGTACGG TACCCGGCGT TGGCGGGCA GCACCCGGCG
 421 CTCCTCTATT CCTATTGCA AGTGCAGGA GCGACCCCG CGCATCCCTC CGCCGACCCC
 481 ATCAAGCTGA GCGCCGGCAC CTTTCAGCTG GACCAGTGGC TGGCGCGGAG CACGGCGGCG
 541 ATGATCTTGC CCAAAATGCC CGACTTCTGC TCTCAGGCGC AGTCCAACTT GCTGGGGAAG
 601 TGGCGGGCG CCGGCACCGC CTTTACCAGC CAGCAGCTGC TGGAGCTGGA GCATCAGTTC
 661 AAATCAACA AGTACCCTCT CCGGCCCAAG CGCTTCGAGG TGGCCACGTC GCTGATGCTC
 721 ACGGAGCGC AGGTGAAGAT TTGGTTCCAG AACCGCCGCA TGAATGGA GCGCCAGAAA
 781 AAGGCGAAG AGCAGGCGGC GCAGGAGCA GAGAACGAGA AAGAGGAGG AGGAGGAGAG
 841 GACAAAAGCG GCGCGAGGA ACTGCTGCTG CCGGCCCGG AGAAAGCGG CCGGAGCGCG
 901 CTGAGGAGC TGCCCGACAG CGAGCCGAG GACGAGGAG AGGAAGAAGA GGAGGAAGA
 961 GAGGCGGAG CCGGCGGCTG CTGCCCTTAC CACTCTCGG ACTGCTCCGA GCGGACGAG
 1021 GAGGACTCGC AGTCCGAGG ACGGCCCGA GCGGCCCGG CACCCCGCGC ACAGTCCGAG
 1081 TGAGCCACG GCGGCCCGCT CCGGCCCGC CCGGCAACG GAGCCTCTG GCCCGCTCT
 1141 CCATCCCGCT CTCCCATCC TCCCTGCTG GAGGGGAGC CGGAAAGGA TCTCTCTCTC
 1201 CCGGAGCGG AGGAGGAT CACACAGTGT TATTATTGAC TGAGAAGCG CCACGACTTG
 1261 AGCCCCCTC CCGCCCCG CTTATCGGA CCGTTTCTT CTTTACCATA ATTCGGAAAA
 1321 GTGTTTATGT CATGAACGTT AAAACTGCTG CAGATCTCA TACTGTCTTT ATTTTGTATA
 1381 TCCATTATT AAAAAGCA AATGAATTC CTCCTACTAT GCATGCTAAA TTATTTACCCA
 1441 GCGCCCTCCG CTTGAGGTGG GGGGAGGAA TATAAATAA GAGCGTTTGT TACTGTGAAA
 1501 AAAAAAAAAA AAAA







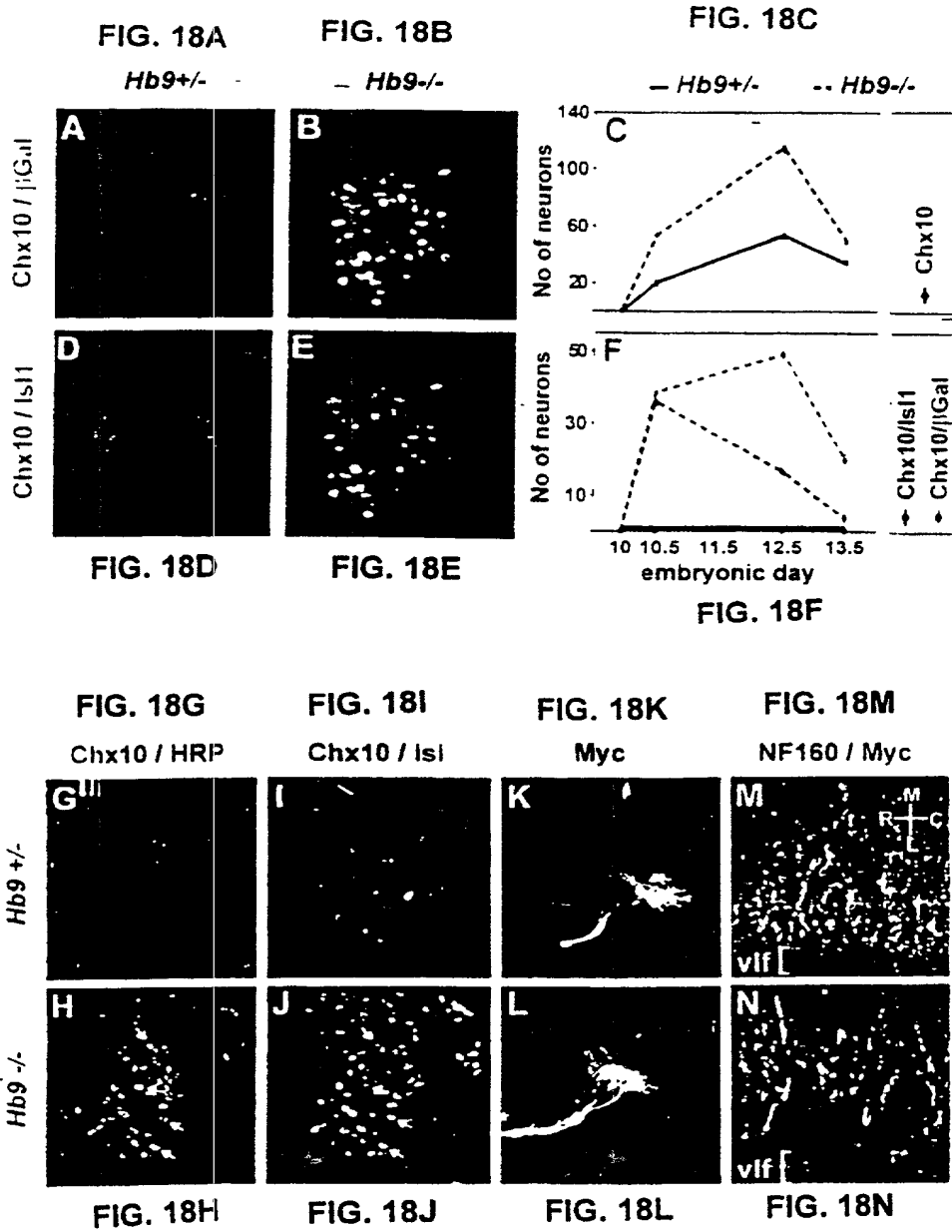


FIG. 19A

A Progressive MN Specification

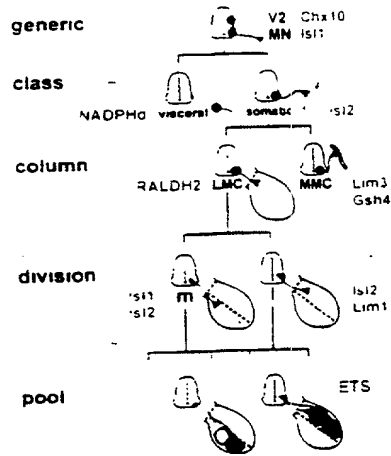


FIG. 19B

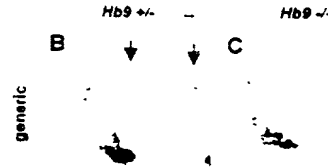


FIG. 19C

CtAT

FIG. 19D

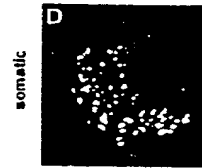


FIG. 19E

Isl2 / jGal

FIG. 19F



NADPH Diaphorase

FIG. 19G

FIG. 19H

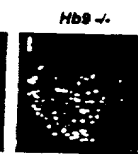


FIG. 19I

jGal / Lim3

FIG. 19J



FIG. 19K

RALDH2

FIG. 19L

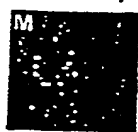
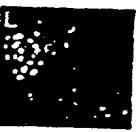


FIG. 19M

Isl2 / Lim1/2

FIG. 19N

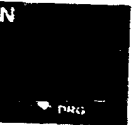


FIG. 19O

PEA3

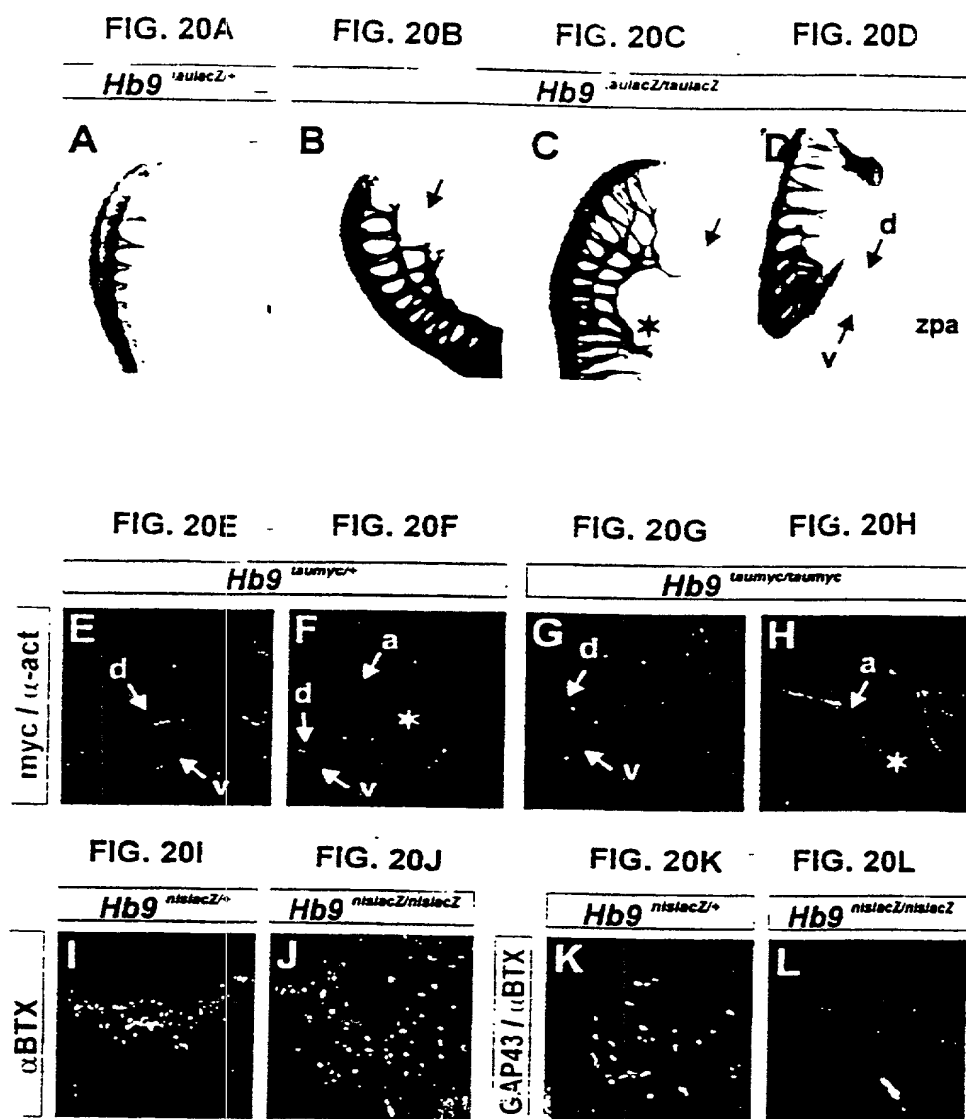


FIG. 21

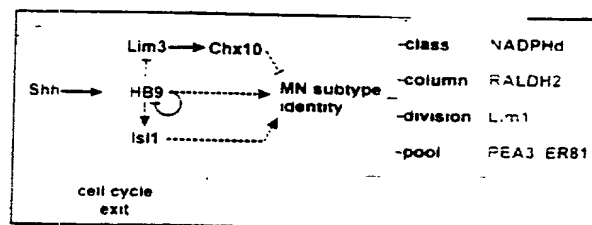


FIG. 22A

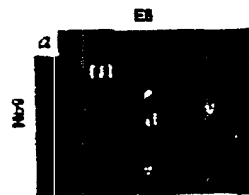


FIG. 22C



FIG. 22E

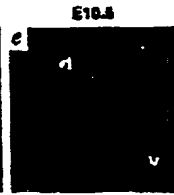


FIG. 22B

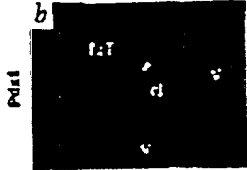


FIG. 22D



FIG. 22F

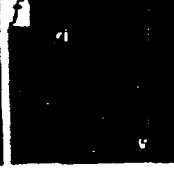


FIG. 22G

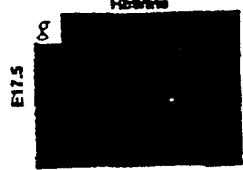
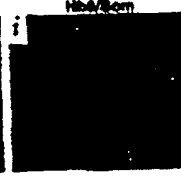
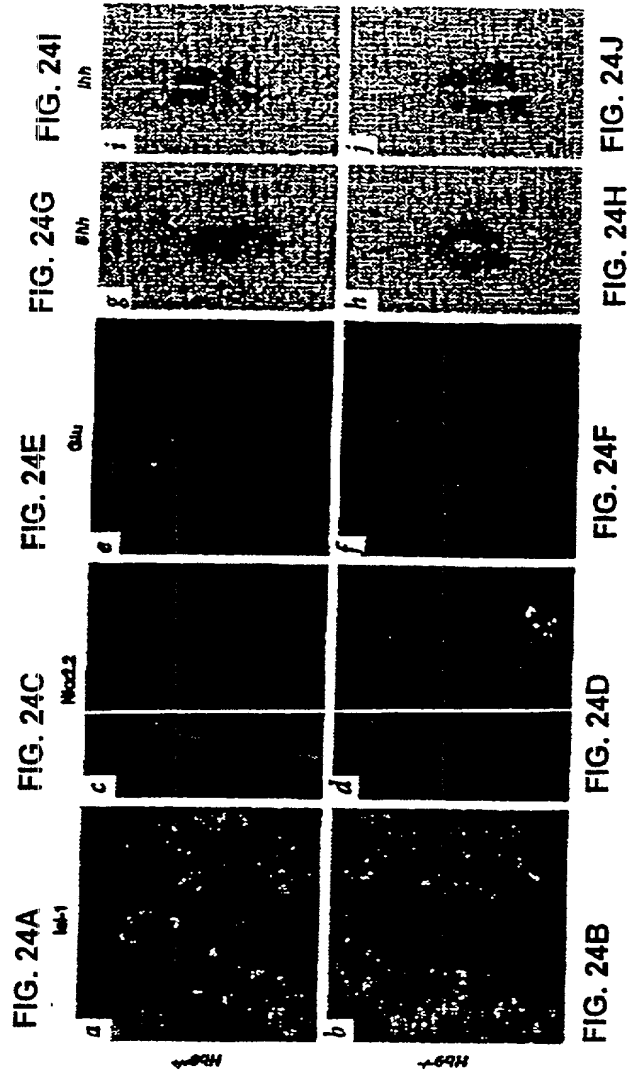


FIG. 22H



FIG. 22I





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